Amendments to the Claims

Please amend claims 25, 27, 44, 46, 92 and 102, and cancel claims 41, 58 and 101, all as shown below. All pending claims are reproduced herewith, including those that remain unchanged.

1.-24. (Canceled).

25. (Currently Amended) An electro-kinetic air transporter-conditioner system comprising:

an upstanding, elongated housing with an air inlet vent in a first side of said housing and an air outlet vent in a second side of said housing opposite said first side;

an ion generating unit positioned in said housing, said ion generating unit having a plurality of pin-ring electrode configurations located one above the other; and

each of said pin-ring electrode configurations including a pin electrode that is directed toward an opening in a ring electrode, ~~said pin electrodes being located closer to said inlet vent than said outlet vent, said ring electrodes being located closer to said outlet vent than said inlet vent; and~~

wherein each said ring electrode includes a flat surface and a convex curved surface that generally face a closest said pin electrode, said convex curved surface surrounding said opening in said ring electrode, and said flat surface surrounding said convex curved surface, such that said convex curved surface curves from said flat surface to said opening; and

wherein said plurality of pin-ring electrode configurations produce an electro kinetic airflow from the air inlet vent to the air outlet vent such that at least a portion of particles in said airflow collect on said ring electrodes.

26. (Previously Presented) The system of claim 25 wherein each said pin electrode in said pin-ring electrode configuration is pointed.

27. (Currently Amended) The system of claim 25 wherein each said pin electrode in said pin-ring electrode configuration ~~is~~ has a triangle-shaped cross section.

28. (Original) The system of claim 25 including a user control that can do at least one of (1) cause the system to be energized, (2) control a duty cycle of the ion generating unit, (3) control a pulse mode operation.

29. (Original) The system of claim 25 including user controls that can (1) cause the system to be energized, (2) control a duty cycle of the ion generating unit, (3) control a pulse mode operation.

30. (Original) The system of claim 28 wherein the pulse mode control can initiate a burst of output ozone.

31. (Original) The system of claim 29 wherein the pulse mode control can initiate a burst of output ozone.

32. (Original) The system of claim 25 wherein said housing has elongated recesses.

33. (Original) The system of claim 25 wherein said ion generating unit includes a high voltage pulse generator.

34. (Original) The system of claim 25 wherein said air inlet vent is covered with horizontal louvers and said air outlet vent is covered with horizontal louvers.

35. (Previously Presented) The system of claim 25 including a user control located on a top of said housing.

36. (Previously Presented) The system of claim 25 wherein said pin electrodes are located adjacent said air inlet vent and said ring electrodes are located adjacent the air outlet vent.

37. (Previously Presented) The system of claim 25 wherein said inlet vent and said outlet vent are elongated along a length of said elongated housing.

38. (Previously Presented) The system of claim 25 wherein each of said pin electrodes includes a plurality of conductive fibers.

39. (Original) The system of claim 25 wherein said housing has a cross-section in the shape of a figure eight.

40. (Previously Presented) The system of claim 25 wherein said air inlet vent and said air outlet vent have louvers that are directed generally perpendicular to a vertical direction of elongation of said housing.

41. (Canceled)

42. (Previously Presented) The system of claim 25 wherein each said pin electrode points in a downstream direction.

43. (Previously Presented) The system of claim 25 wherein when energized said ion generating unit causes air to flow in a downstream direction from said pin electrodes toward said ring electrodes.

44. (Currently Amended) An electro-kinetic air transporter-conditioner system comprising:

an upstanding, elongated housing with an air inlet located in a first side of said housing and an air outlet located in a second side of said housing generally opposite said first side;

said inlet and said outlet being elongated along a length of said elongated housing;

an ion generating unit positioned in said housing, said ion generating unit having a pin-ring electrode configuration; and

said pin-ring electrode configuration including a pin electrode that is directed in a downstream direction toward an opening in a ring electrode~~, said pin electrode being located closer to said inlet than said outlet, said ring electrode being located between said outlet and said inlet; and~~

wherein said ring electrode including a flat surface and a convex curved surface that generally face said pin electrode, said convex curved surface surrounding said opening in said ring electrode, and said flat surface surrounding said convex curved surface, such that said convex curved surface curves from said flat surface to said opening; and

wherein said pin-ring electrode configuration produces an electro kinetic airflow from the air inlet to the air outlet such that at least a portion of particles in said airflow collect on said ring electrode.

45. (Previously Presented) The system of claim 44 wherein said pin electrode is pointed.

46. (Currently Amended) The system of claim 44 wherein said pin electrode is has a triangle-shaped cross-section.

47. (Original) The system of claim 44 including a user control that can do at least one of (1) cause the system to be energized, (2) control a duty cycle of the ion generating unit, (3) control a pulse mode operation.

48. (Original) The system of claim 44 including user controls that can (1) cause the system to be energized, (2) control a duty cycle of the ion generating unit, (3) control a pulse mode operation.

49. (Original) The system of claim 47 wherein the pulse mode control can initiate a burst of output ozone.

50. (Original) The system of claim 48 wherein the pulse mode control can initiate a burst of output ozone.

51. (Original) The system of claim 44 wherein said housing has elongated recesses.

52. (Original) The system of claim 44 wherein said ion generating unit includes a high voltage pulse generator.

53. (Previously Presented) The system of claim 44 wherein said air inlet is covered with horizontal louvers and said air outlet is covered with horizontal louvers.

54. (Previously Presented) The system of claim 44 including a user control located on a top of said housing.

55. (Previously Presented) The system of claim 44 wherein said pin electrode is located adjacent said air inlet and the ring electrode is located adjacent said air outlet.

56. (Original) The system of claim 44 wherein said housing has a cross-section in the shape of a figure eight.

57. (Previously Presented) The system of claim 44 wherein said air inlet and said air outlet have louvers that are directed generally perpendicular to a vertical direction of elongation of said housing.

58. (Canceled)

59. (Previously Presented) The system of claim 44 wherein when energized said ion generating unit causes air to flow in the downstream direction from said pin electrode toward said ring electrode.

60. (Previously Presented) The system of claim 44 wherein said pin electrode includes a plurality of conductive fibers.

61.-81. (Canceled)

82. (Previously Presented) The system of claim 25, wherein said upstanding elongated housing has a housing height that is at least twice a maximum housing width, and wherein said plurality of pin-ring electrode configurations located one above the other form a single column within said housing, thereby enabling said housing to have a relatively small footprint as compared to said housing height.

83. (Previously Presented) The system of claim 82, wherein each said first pin electrode is pointed in a generally horizontal direction toward a corresponding said opening in a

corresponding said second ring electrode, to produce an airflow, containing at least one of ions and ozone, in said generally horizontal direction.

84. (Previously Presented) The system of claim 25, wherein said second ring electrodes are removable from said upstanding elongated housing to provide cleaning access.

85. (Previously Presented) The system of claim 84, further comprising:

a user liftable handle to assist in removal of said second ring electrodes out through a top of said upstanding elongated housing.

86. (Previously Presented) The system of claim 25, wherein each said first pin electrode is located closer to said air inlet vent than to said air outlet vent; wherein each said second ring electrode is located closer to said air outlet vent than to said air inlet vent; and whereby a substantial airflow is produced from said inlet vent to said outlet vent without the use of a fan.

87.-91. (Canceled)

92. (Currently Amended) An electro-kinetic air transporter-conditioner system comprising:

a freestanding vertically elongated housing with a top and an air inlet vent and an air outlet vent;

an ion generating unit positioned in said housing, said ion generating unit having a plurality of pin-ring electrode configurations located in a single column one above the other in an

elongated manner, each of said pin-ring electrode configurations including a first pin electrode that is directed toward an opening in a second ring electrode; and

a user operated control located on the top of said housing;

wherein each said ring electrode includes a flat surface and a convex curved surface that generally face a closest said pin electrode, said convex curved surface surrounding said opening in said ring electrode, and said flat surface surrounding said convex curved surface, such that said convex curved surface curves from said flat surface to said opening.

93. (Previously Presented) The system of claim 25, wherein said upstanding, elongated housing further includes lower and upper ends, with a base near said lower end to support said upstanding, elongated housing in an upstanding position when said base is placed on a substantially horizontal surface.

94. (Previously Presented) The system of claim 44, wherein said upstanding, elongated housing further includes lower and upper ends, with a base near said lower end to support said upstanding, elongated housing in an upstanding position when said base is placed on a substantially horizontal surface.

95.-99. (Canceled)

100. (Previously Presented) The system of claim 92, further including a base near a lower end of said housing, distal from said top of said housing, to support said housing in an upstanding position when said base is placed on a substantially horizontal surface.

101. (Canceled)

102. (Currently Amended) An electro-kinetic air transporter-conditioner system comprising:

an upstanding, elongated housing with an air inlet vent located in a first side of said housing and an air outlet vent located in a second side of said housing generally opposite said first side;

said inlet vent and said outlet vent being elongated along a length of said elongated housing;

an ion generating unit positioned in said housing, said ion generating unit having a pin-ring electrode configuration; and

said pin-ring electrode configuration including a pin electrode that is directed in a downstream direction toward an opening in a ring electrode; ~~and~~

wherein said ring electrode includes a flat surface and a convex curved surface that generally face said pin electrode, said convex curved surface surrounding said opening in said ring electrode, and said flat surface surrounding said convex curved surface, such that said convex curved surface curves from said flat surface to said opening; and

wherein said pin-ring electrode configuration produces an electro kinetic airflow from the air inlet vent to the air outlet vent such that at least a portion of particles in said airflow collect on said ring electrode.